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- (71) Applicants (*for all designated States except US*): **ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE** [KR/KR]; 161, Gajeong-dong, Yuseong-gu, Daejeon-city 305-350 (KR). **SAMSUNG ELECTRONICS CO., LTD.** [KR/KR]; 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742 (KR). **SK TELECOM CO., LTD** [KR/KR]; 99, Seorin-dong, Jongro-gu, Seoul 110-728 (KR). **KT CORPORATION** [KR/KR]; 206, Jeongja-dong, Bundang-gu, Seongnam-city, Kyungki-do 463-711 (KR). **KTFREETEL CO., LTD.** [KR/KR]; 890-20, Daechi-dong, Gangnam-gu, Seoul 135-280 (KR). **HANARO TELECOM,**

INC. [KR/KR]; Shindongah Fire & Marine Insurance Building 43, Taepyeongno2-Ga, Jung-Gu, Seoul 100-733 (KR).

(72) Inventors; and

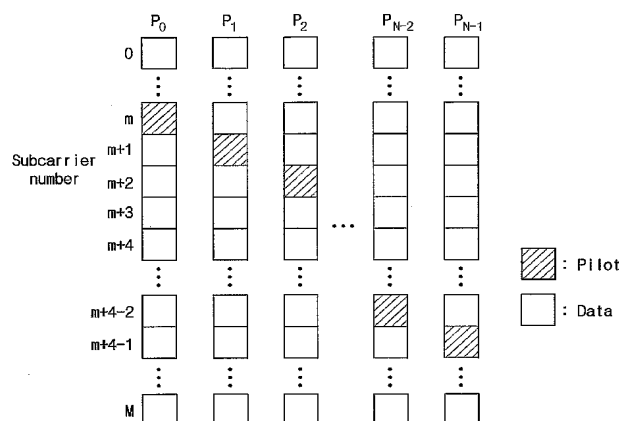
(75) Inventors/Applicants (*for US only*): **LEE, Yu-Ro** [KR/KR]; Expo Apt. 410-807, Jeonmin-dong, Yuseong-gu, Daejeon-city 305-762 (KR). **OH, Jong-Ee** [KR/KR]; 119-7, Sinsung-dong, Yuseong-gu, Daejeon-city 305-804 (KR). **YEH, Choong-II** [KR/KR]; Sinseonmaeul Apt. 209-202, Gwanjeong-dong, Seo-gu, Daejeon-city 302-243 (KR). **LIM, Hyoung-Soo** [KR/KR]; Mujigae Apt. 102-304, Wolpyeong 2-dong, Seo-gu, Daejeon-city 302-282 (KR). **KWON, Dong-Seung** [KR/KR]; Expo Apt. 204-1304, Jeonmin-dong, Yuseong-gu, Daejeon-city 305-390 (KR).

(74) Agent: **YOU ME PATENT & LAW FIRM**; Teheran Bldg., 825-33 Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

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(54) Title: METHOD FOR ALLOCATING DATA AND PILOTS, AND TRANSMITTING METHOD AND DEVICE AND RECEIVING METHOD AND DEVICE USING THE SAME IN ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM



(57) Abstract: Disclosed is a method for allocating data and pilots, a transmitting method and device, a receiving method and device in an OFDMA system. A terminal partitions subcarrier groups and symbols from an uplink channel based on a basic pilot pattern generated by a specific reference, receives at least one subchannel based on the partitioned subcarrier groups and symbols, hops the subcarrier groups caused by the subchannel according to hopping patterns, allocates data, and differently positions the pilots per subcarrier group based on the basic pilot pattern. Accordingly, the probability of pilot collision between adjacent cells is reduced, and accuracy of channel estimation is increased through boosting the pilot subcarrier power.

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